



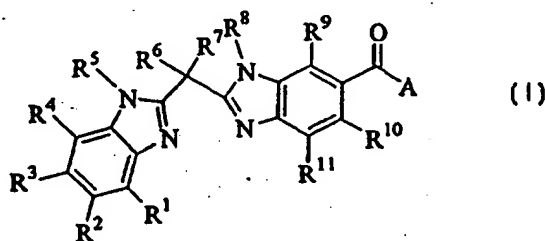
PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION  
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>7</sup> : <b>C07D 235/20, 403/14, 401/14, 471/04, A61K 31/4184, 31/437 // (C07D 471/04, 221:00, 209:00)</b>		<b>A1</b>	(11) International Publication Number: <b>WO 00/20401</b>
			(43) International Publication Date: <b>13 April 2000 (13.04.00)</b>
(21) International Application Number: <b>PCT/JP99/05319</b>			
(22) International Filing Date: <b>29 September 1999 (29.09.99)</b>			
(30) Priority Data: 60/102,711      1 October 1998 (01.10.98)      US 60/117,269      26 January 1999 (26.01.99)      US 60/123,277      9 March 1999 (09.03.99)      US			
(71) Applicant (for all designated States except US): <b>BAYER YAKUHIN, LTD. [JP/JP]; 5-36, Miyahara 3-chome, Yodogawa-ku, Osaka-shi, Osaka 532-8577 (JP).</b>			
(72) Inventors; and (75) Inventors/Applicants (for US only): <b>MITTENDORF, Joachim [DE/DE]; Wildsteig 30a, D-42113 Wuppertal (DE). HENNING, Rolf [DE/DE]; Am Jagdhaus 115, D-42113 Wuppertal (DE). RADDATZ, Siegfried [DE/DE]; Jakob-Bohme-Strasse 21, D-51065 Koln (DE). SCHLEMMER, Karl-Heinz [DE/DE]; Wildsteig 22a, D-42113 Wuppertal (DE). HIRAOKA, Makiko [JP/JP]; 2-41-302, Saidaiji-Minami-machi, Nara-shi, Nara 631-0824 (JP). KADONO, Hiroshi [JP/JP]; 3-15-10-601, Kudo, Oji-cho, Kitakatsuragi-gun, Nara 636-0003 (JP). MOGI, Muneto [JP/JP]; 5-10-57-102, Daianji, Nara-shi,</b>			
		Nara 630-8133 (JP). MORIWAKI, Toshiya [JP/JP]; 2-25-4, Kitayamato, Ikoma-shi, Nara 630-0121 (JP). MURATA, Toshiki [JP/JP]; 1-3-501, Nakano-cho, Ikoma-shi, Nara 630-0267 (JP). SAKAKIBARA, Sachiko [JP/JP]; 544-1A-1, Sanjo-cho, Nara-shi, Nara 630-8244 (JP). SHIMADA, Mitsuyuki [JP/JP]; 4-7-905, Kyobate-Jikata-Higashigawa-cho, Nara-shi, Nara 630-8323 (JP). YOSHIDA, Nagahiro [JP/JP]; 5-18-15 Saganakadai, Kizu-cho, Soraku-gun, Kyoto 619-0223 (JP). YOSHINO, Takashi [JP/JP]; 1-1-17-101, Saidaiji-Nogami-cho, Nara-shi, Nara 631-0833 (JP).	
		(74) Agents: <b>AOYAMA, Tamotsu et al.; Aoyama &amp; Partners, IMP Building, 3-7, Shiromi 1-chome, Chuo-ku, Osaka-shi, Osaka 540-0001 (JP).</b>	
		(81) Designated States: <b>AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</b>	
		Published With international search report.	

(54) Title: **NEW BIS-BENZIMIDAZOLES**



(57) Abstract

Bis-benzimidazole compounds of general formula (I) in which R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup> and R<sup>4</sup> are hydrogen, hydroxy or halogen, R<sup>5</sup> and R<sup>8</sup> are hydrogen, or (C<sub>1</sub>-C<sub>4</sub>)-alkyl, R<sup>6</sup> and R<sup>7</sup> are hydrogen, or (C<sub>1</sub>-C<sub>6</sub>)-alkyl, hydroxy, halogen, or (C<sub>1</sub>-C<sub>6</sub>)-alkoxy, R<sup>9</sup>, R<sup>10</sup> and R<sup>11</sup> are hydrogen, halogen, nitro, cyano or trifluoromethyl, and A is a non-aromatic 5-7-membered N-heterocycle, etc. process for their preparation and their use for treating diseases associated with tryptase activity including allergic, inflammatory and related immunological diseases, in particular asthma, allergic rhinitis, allergic conjunctivitis and allergic dermatitis.